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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/050,170	(01/18/2002	Masahiro Kanda	020066	7598
23850	7590	08/11/2004		EXAM	INER
		ATZ, QUINTOS,	NGUYEN, CHAU N		
1725 K STR SUITE 1000	•		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20006				2831	

DATE MAILED: 08/11/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Antion Commence	10/050,170	KANDA, MASAHIRO					
Office Action Summary	Examiner	Art Unit					
	Chau N Nguyen	2831					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOTHE MAILING DATE OF THIS COMMUNION. Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30). If NO period for reply is specified above, the maximum states a failure to reply within the set or extended period for reply any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, however, may a unication.)) days, a reply within the statutory minimum of thi tutory period will apply and will expire SIX (6) MO will, by statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed	Responsive to communication(s) filed on 23 June 2004.						
2a) This action is FINAL .	This action is FINAL . 2b)⊠ This action is non-final.						
3) Since this application is in condition f	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practic	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-5 and 7-13</u> is/are pending	4) Claim(s) 1-5 and 7-13 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
·	Claim(s) is/are allowed.						
	Claim(s) <u>1-5 and 7-13</u> is/are rejected.						
•	Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
o) Claim(s) are subject to restrict	dirandor election requirement.						
Application Papers							
9) The specification is objected to by the	Examiner.						
10) The drawing(s) filed on is/are:	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11) I he oath or declaration is objected to	by the Examiner. Note the attache	d Oπice Action or form P1O-152.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)	_						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-892) 		Summary (PTO-413) (s)/Mail Date					
Notice of Draitsperson's Patent Drawing Review (PTO-1449 or F Paper No(s)/Mail Date		Informal Patent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

- 1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless -
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 4, 9 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Larson (3,555,171).

Larson discloses a rubber stopper used in a waterproof connector, the rubber stopper being disposed between a covered cable (11) and a connector housing (G) of the waterproof connector, wherein the rubber stopper includes a composition that is not the same as the composition of the covering layer of the covered cable (Larson, col. 1, lines 68-71 and col. 3, lines 10-17, the covering layer 11 being made of PVC or polyethylene and the rubber stopper being made of butyl rubber). Noted that since the composition of the rubber stopper is not the same as the composition of the covering layer as claimed in claim 1, the material of the rubber stopper can bond to the covering layer of the covered cable when the rubber stopper is heated.

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Re claim 4, the recitation of " a heating temperature during the heating is higher than a temperature at which the rubber stopper is assembled in the connector" being considered method limitations. It has been held that during examination, the patentability of a product-by-process claim is determined by the novelty and nonobviouness of the claimed product itself without consideration of the process for making it which is recited in the claim. In re Thorpe, 227 USPQ 964.

Re claim 9, the rubber stopper of Larson is bonded to the covering layer of the covered cable when the rubber stopper is heated by an environmental air surrounding the connector during a using state of the connector since the rubber stopper and the covering layer of Larson comprise different compositions as claimed in the claimed invention.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 2, 5 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Larson in view of Wada (4,517,332).

Larson discloses the invention substantially as claimed including the covering layer comprising PVC (re claim 12). Larson does not disclose a rubber composition containing an organic rubber as a major constituent and a di-2-ethylhexyl phthalate.

Wada discloses a rubber composition containing an organic rubber as a major constituent and a di-2-ethylhexyl phthalate (col. 3, lines 47-48) (re claims 2 and 5). It would have been obvious to one skilled in the art to use the rubber composition as taught by Wada for the stopper of Larson since the rubber composition taught by Wada has an excellent non-tackiness such that it can be easily handling during the connection process.

5. Claims 3, 7, 8, 10 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Larson in view of Wada as applied to claim 1 above, and further in view of Yoshino (5,519,082).

The combination of Larson and Wada discloses the invention substantially as claimed including the covering layer of the covered cable comprising PVC (re claim 13). The combination does not disclose the rubber including a silicon rubber

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as a major constituent and a bonding agent which is at least one of silylidyne groups. Yoshino discloses a silicone rubber composition including a compound comprising at least one of silylidyne groups (see abstract). It would have been obvious to one skilled in the art to use the rubber composition as taught by Yoshino for the stopper of Larson since the rubber composition of Yoshino is improved in hardness, modulus and tear strength (re claims 3, 7 and 8). Re claim 10, the modified rubber stopper of Larson is bonded to the covering layer of the covered cable when the rubber stopper is heated by an environmental air surrounding the connector during a using state of the connector since the modified rubber stopper and the covering layer of Larson comprise different compositions as claimed in the claimed invention.

Response to Arguments

6. Applicant's arguments with respect to claims 1, 5 and 7 have been considered but are moot in view of the new ground(s) of rejection.

Communication

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chau N Nguyen whose telephone number is 571-272-1980. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-2800 ext 31. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chau N Nguyen
Primary Examiner
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